

*Curriculum Vitae*

**ZHAOHONG JIN**

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**EDUCATION**

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<b>B.A., Computer Science</b>	May 2018
University of California, Berkeley	GPA: 3.848/4.00
<b>B.A., Economics</b>	May 2018
University of California, Berkeley	GPA: 3.848/4.00

**ACADEMIC HONORS**

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<b>Department of Electrical Engineering and Computer Science   UC Berkeley</b>	
<b>Honors Degree Candidate</b>	2016-Present
<ul style="list-style-type: none"><li>Honors program for top computer science students based on academic performance, breadth concentration, and research engagement.</li></ul>	
<b>College of Letters &amp; Science   UC Berkeley</b>	
<b>Dean's Honor List</b>	2016, 2017
<ul style="list-style-type: none"><li>Semester based award to top 4% percent of the Letter and Science undergraduates.</li></ul>	
<b>Cal Alumni Association   UC Berkeley</b>	
<b>Leadership Award</b>	2014, 2016
<ul style="list-style-type: none"><li>Established in 1934, this awards recognizes undergraduate students who demonstrate innovative, initiative-driven leadership impacting their academic, work, or community environments. Highest undergraduate leadership honor awarded to top 1% of the students.</li></ul>	

**PROFESSIONAL EXPERIENCES**

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<b>Amazon, eCommerce Foundational Technologies   Seattle, Washington</b>	
<b>Software Development Engineer Intern</b>	May 2017-August 2017
<ul style="list-style-type: none"><li>Worked on a commodities metadata version control distributed database service that is used all across Amazon as a tier-1 service.</li><li>Significantly improved the reliability of the service when the fleet of servers are down by implementing a local fallback strategy. When users' queries have a cache miss and the servers are not available, queries will search the local fallback file and return a default record instead of throwing out exceptions. Added new features to the client API that enabled the customer to auto sync local configurations from the server daily.</li><li>Designed the architecture of the fallback service, maintained the wiki page daily, and performed all testing mechanisms from unit tests to integration tests to end-to-end tests.</li></ul>	
<b>Moody's Analytics, Enterprise Risk Solutions   San Francisco, California</b>	
<b>Software Engineering Intern</b>	June 2016-August 2016
<ul style="list-style-type: none"><li>Researched, deployed, and tested a distributed computing platform on a cluster of servers for big data analysis.</li></ul>	

- Designed the distributed computing architecture on Windows Server by integrating the Spark standalone cluster manager with HDFS.
- Created a customized UI for Spark/HDFS metrics by using HTML5, CSS, JS, Angular JS, and requesting JSON from REST APIs.

### **Moody's Analytics, Enterprise Risk Solutions | San Francisco, California**

#### ***Software Engineering Intern***

June 2015-August 2015

- Responsible for a full cycle of a system monitor software development through design, research, coding, UI design, and deployment.
- Conducted an in-depth research on the Oracle Database Automatic Workload Report (AWR) system for future system data collection.
- Improved performances of the Oracle database when running the stress test and large deals by building monitors to analyze AWR/queries.

## **RESEARCH EXPERIENCES**

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### **Berkeley Renewable & Appropriate Energy Laboratory | Berkeley, California**

#### ***Research Assistant***

January 2017-Present

- Designed and implemented a two stage clustering algorithm to cluster all wind stations across U.S into small groups. Worked with big data at the scale of terabytes.
- Intensively researched existing clustering papers and implemented an automated algorithm to find the optimal number of clusters.
- Generated detailed graphic reports for presentation. Currently working on the paper.

### **Berkeley Institute for Data Science | Berkeley, California**

#### ***Research Assistant***

January 2016-August 2016

- Built the web infrastructure for a platform that collects species data synchronously from all mainstream online biology databases.
- Designed the entire client side by using HTML5, CSS, JavaScript, and Angular JS framework to allow queries on animal taxonomy.
- Integrated the API calls to all mainstream biology databases by using Ajax and Angular JS and present data synchronously on the web.

### **Berkeley Haas School of Business | Berkeley, California**

#### ***Research Assistant***

January 2015-August 2016

- Researched and implemented solutions to retrieve and process data from International Movie Database (IMDB) online archive.
- Parsed millions of lines of raw input data by using Java regular expressions. Created easily scalable modules to support multiple tables.
- Transferred all data into standard database input by using JDBC to fully support SQL queries. Delivered as a software package.

## **TEACHING EXPERIENCES**

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### **CS61A, The Structure and Interpretation of Computer Programs | Berkeley, California**

#### ***Teaching Assistant***

January 2015 – May 2016

- Led ten students in weekly tutoring session by giving lectures, going through practice problems and preparing worksheets.

- Developed teaching strategies with other mentors during the weekly meeting and developed practice problems for over 200+ students.
- Improved the coding skills of students by grading their python projects and writing constructive feedbacks about their code efficiency.

### **Berkeley Computer Science Mentors | Berkeley, California**

#### ***Founding Mentor***

January 2015 – May 2016

- One of the founding mentors of CSM, which strives to provide personalized learning experiences for students taking CS classes at Cal.
- Greatly enriched the teaching resources such as problem sets and created learning tools and strategies by meeting with other mentors.
- Taught in a discussion session of fifteen students by helping them understand python programming syntaxes, recursions, and data structures.

## **EXTRACURRICULAR ACTIVITIES**

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### **Associated Students of University of California(ASUC) | Berkeley, California**

#### ***Associated Director of Business Analytics***

September 2015 – June 2016

- Greatly optimized the selection process for the ASUC recruiting program by working as a proposal manager and screening resumes.
- Improved the billing process and cut the cost by 47% for over a hundred clubs on campus by introducing the Credit Card Pilot Program.
- Lunched the first ASUC Business Case Competition (eleven clubs joined) to expand the influence of Cal Lodge, an ASUC property.

### **Berkeley Asian Business Associated(ABA) | Berkeley, California**

#### ***Community Service Committee Member***

January 2015 – June 2015

- Organized volunteer events like tax return services for residents in Oakland Chinatown and clean ups for Berkeley Marina Carnivals.
- Canvassing regularly for food donations from over more than seven local businesses for the Vita Project and other ABA events.
- Led the team to win the championship in the Altria Case Competition and achieved a 50% profit margin for the wine retailer.